

<p align="center"><b>5 SIZE, SHAPE AND DISTRIBUTION</b></p>	<p align="center">Page 1 of 2</p>
<p align="center"><b>Division of Forensic Science</b></p> <p align="center"><b>BLOODSTAIN PATTERN ANALYSIS TRAINING MANUAL</b></p>	<p align="center">Amendment Designator:</p>
	<p align="center">Effective Date: 15-October-2004</p>
<p align="center"><b>5 SIZE, SHAPE AND DISTRIBUTION</b></p> <p><b>5.1 Objectives</b></p> <p>5.1.1 To understand the distinguishing characteristics related to size, shape and distribution of bloodstain evidence.</p> <p>5.1.2 To understand how the characteristics of size, shape and distribution assist in the analysis of bloodstain evidence.</p> <p><b>5.2 Methods of Instruction</b></p> <p>5.2.1 Lecture and Discussion</p> <p>5.2.1.1 Size Determination (see Bloodstain Procedures Manual, Section 2)</p> <p>5.2.1.2 Shape Determination (see Bloodstain Procedures Manual, Section 3)</p> <p>5.2.1.3 Distribution Determination (see Bloodstain Procedures Manual, Section 4)</p> <p>5.2.2 Literature References</p> <p>5.2.2.1 Gardner, R. M., "Deformation Levels in Blood Droplets Created by Impact Events"</p> <p>5.2.2.2 Gardner, R. M., "Modeling Impact Spatter as a Method of Differentiation", IABPA Training Conference, September 24, 1992</p> <p>5.2.2.3 Engiert, R., "Bloodstain Patterns", A Reprint with Permission of Herbert Leon MacDonell</p> <p>5.2.2.4 Stephens, B. G., M.D. and Allen, T. B., M.D. "Back Spatter of Blood from Gunshot Wounds – Observations and Experimental Simulation", Journal of Forensic Sciences. JFSCA Vol.28 No.2 April 1983 pp 437-439</p> <p>5.2.2.5 Adair, T. W. "False Wave Cast-off, Considering the Mechanisms of Stain Formation". Medical Examiner's Office, Everett, WA</p> <p>5.2.3 Experiments</p> <p>5.2.3.1 Division of Forensic Science Workshop experiments 1-5</p> <p>5.2.3.2 Compare balloon pop results to static pool struck with blunt object</p> <p>5.2.3.3 Have blood drawn &amp; create expired patterns</p> <p>5.2.3.4 Create drip pattern satellites</p> <p>5.2.3.5 Create arterial with high pressure spurt &amp; resulting arterial rain</p> <p>5.2.3.6 Prepare for classroom discussion of all of the aforementioned experiments</p> <p>5.2.4 Evaluation of Spatter Size &amp; Velocity Classification</p> <p>5.2.4.1 Please read the enclosed five articles (listed in 5.2.2 and 5.2.3) and be prepared to discuss the following concepts:</p> <p>5.2.5.1.1 Differences between "low", "medium", and "high" velocity impact patterns.</p>	

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<div> <div>5.2.5.1.2</div> <div>Other events which may produce stain patterns with characteristics of impact.</div> </div> <div> <div>5.2.5.1.3</div> <div>Effects of porous/non-porous and smooth/textured target surfaces.</div> </div> <div> <div>5.2.5.1.4</div> <div>What would be proper to state in a written report?</div> </div> <div>◆End</div>	